

# Proceedings of the Iowa Academy of Science

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## Proceedings of the Forty-Third Annual Meeting of the Iowa Academy of Science, Held at Fairfield, April 26 and 27, 1929: Minutes of the Meeting; Staff & Committee Reports

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## PROCEEDINGS OF THE FORTY-THIRD ANNUAL MEETING OF THE IOWA ACADEMY OF SCIENCE

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**Held at Fairfield, April 26 and 27, 1929**

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Previous to the meeting, President Kay announced the appointment of certain committees which are not contained in the general printed program:

Auditing — Dille, Reilly, Poulter, Wester, Rusk.

Secretary's report — Fillman, Hinman, Cornog, Kunerth, Graber, Lindley, Ben H. Wilson.

Necrology — Shimek, McGaw, N. Knight, Almy, Begeman, Cratty.

Resolutions — Conrad, C. R. Keyes, Woodrow, John E. Smith, French, C. C. Wylie.

Nominations — Bartow, McGraw, Stookey,

The Committees which had been previously appointed and announced in the printed program are as follows:

Executive committee — Kay, Spinney, Thomas, Lees, Helmick Albert, J. C. Gilman, Popoff, H. Gilman, Stookey, Wester, Nelson, Newell, Jaques.

Biological Survey — Pammel, Conard, Kelly, Ross, Stromsten.

Conservation — Shimek, Stoner, C. R. Keyes, Stephens, Orr, Jaques.

Des Moines Meeting A. A. A. S. — Morehouse, Seashore, Thomas, Stewart, Pammel, Cable, Begeman, Norton, Stephens.

History — Lees, Kelly, Macbride, Almy.

Membership, — Thomas, Helmick, Coleman, Hersey, Bakke, Norris.

Publicity — Lazell, Albert, J. C. Gilman, Popoff, H. Gilman, Stookey, Wester, Nelson, Newell, Jaques.

The following reports were read and adopted on motion: Executive committee, Secretary's editor's, A. A. A. S. representatives, Des Moines meeting A. A. A. S., treasurer's, conservation, auditing, necrology, resolutions.

The report of the committee on secretary's report was read. It was moved by Shimek that the report be approved by the Academy and submitted to the executive committee that they may properly appoint a Press Secretary as provided for in the report. Carried.

The report of the biologic survey committee was read by Pammel. Moved and carried that this be adopted with thanks to all concerned.

After hearing the report of the committee on history, it was moved and carried that the Academy approve the recommendations of that committee and the executive action thereon.

The membership committee reported, and it was moved by Pammel and carried unanimously that Dr. Frank Leverett be made an honorary fellow. It was moved that the report of the membership committee on fellows, transfers, and associates be adopted.

The nominating committee recommended the election of the following:

President — L. B. Spinney, Ames.

Vice-Pres. — H. L. Rietz, Iowa City.

Treasurer — A. O. Thomas, Iowa City.

Editor — G. H. Coleman, Iowa City

\* Secretary — P. S. Helmick, Des Moines.

A. A. A. S. Representatives — D. W. Morehouse, Des Moines, and  
H. L. Rietz, Iowa City.

It was moved and carried that the president cast the ballot of the Academy for the above officers.

The retiring section chairmen announced the names of the new section chairmen as follows:

Bacteriology — R. H. Walker, Ames.

Botany — Minnie R. Johns, Davenport.

Inorg. Chem. — Ben H. Peterson, Cedar Rapids.

Organ. Chem. — J. B. Culbertson, Mt. Vernon.

Geology — C. S. Gwynne, Ames.

Mathematics — E. W. Chittenden, Iowa City.

Physics — E. Hobart Collins, Fairfield.

Psychology — W. E. Slaght, Mt. Vernon.

Zoology — J. E. Guthrie, Ames.

It was moved and carried that the Secretary send sympathetic greetings to Miss Inez Mills of John Fletcher College.

It was moved and carried that this academy favors a proposal of the National Committee on Calendar Simplification to call a conference for the purpose of considering whether or not calendar simplification is advisable.

On motion meeting adjourned,

(signed) P. S. HELMICK,  
*Secretary.*

## THE REPORT OF THE SECRETARY

During the past year the members of the Academy may well point with pride to the fact that their united effort was largely responsible for the achievement of several important goals.

Through the efforts of Academy members and their friends, our state legislature has appropriated \$2,000 to the Academy to be used to defray a part of the necessary expenses of the A. A. A. S. meeting to be held in Des Moines, Iowa, in December. It is unnecessary to remind this Academy that this meeting marks a most important scientific event in the scientific history of the state, and that our distinguished visitors will, to a large extent, judge the state of science in Iowa by the number of Academy members in attendance at these meetings. Our guests, the visiting A. A. A. S. scientists, can be accorded no greater courtesy than for us to attend the A. A. A. S. meetings in large numbers.

Academy members will also be interested to learn that the legislature has appropriated \$3,000 to be expended annually for Biological Survey work in the state under the auspices of the already existing agency, the Geological

\* Subsequent to the meeting J. C. Gilman was elected Academy Secretary to take the place of P. S. Helmick, resigned.

Survey. At many of our past Academy meetings we have gone on record recommending such a state appropriation.

At this time, I wish to thank all those friends of the Academy who interested themselves in the passage of these two bills, and to particularly thank the Senators and the Representatives, who, after having inquired into the merits of the bills, gave them their hearty and active support.

This is the forty-third annual meeting of the Academy, and yet there exists no adequate written history of the organization. Last year the Academy recognized the importance of undertaking the compilation of such a history while the necessary historical information exists in a more or less accessible form, and recommended that a history be written. It is my hope that the committees concerned in this work can report favorable progress.

During the past two years the Academy has been fortunate in having a professional journalist, Professor Fred Lazell, in charge of the publicity committee. I believe that every cooperation should be shown this committee. Quoting from Austin H. Clark in "What Science Owes the Public" — the *Scientific Monthly*, Vol. 23, p. 53. "What science owes the public is a greater extension and expansion of all lines of contact with the people as a whole. Let us show more confidence in our fellowmen. Let us be frank and open with them. If we who are engaged in science let the people know what it is we do and what it means to them everyone will profit."

In my opinion, the Academy should take a larger part in the release of important scientific news to the papers of Iowa. To this end, I suggest the advisability of creating a new Academy office, that of Press Secretary. The Press Secretary would be a regularly constituted officer of the Academy who would cooperate closely with the press both during the Academy meeting and throughout the year as well. Since the publication of our Proceedings is made possible only by the financial support of the state, I believe that in return, we should let the public at large know the results of our scientific deliberations.

May I close this report by citing some statistics which refer to the growth of the Academy during the last twenty years. I shall spare you the entire statistics — although I hope they may find a place in the Proceedings. Let us consider the two years 1907 and 1927. In these twenty years the membership increased 178 per cent, the number of papers printed increased 840 per cent, but the increase in the number of pages allotted to us in the Proceedings increased only 39 per cent, and the number of pages available per member decreased 47 per cent. Our members must be becoming more concise in their writing of late, for the number of pages per paper decreased 85 per cent. Our members are apparently engaging in more research work than formerly, for the number of papers per member increased 236 per cent.

With the hope that the Academy continues to fulfill its obligation of fostering the scientific interests of the state this report is

Respectfully submitted,

P. S. HELMICK  
*Secretary.*

*Addendum to Secretary's Report*

Year	Pages in Proceed- ings	No. of papers Printed	No. of members	Pages per member	Pages per paper	Papers per member
1927	383	169	557	0.69	2.28	0.303
1926	347	180	525	0.66	1.93	0.343
1925	454	141	472	0.96	3.22	0.298
1924	467	201	521	0.90	2.32	0.385
1923	490	125	444	1.10	3.92	0.282
1922	379	112	375	1.01	3.38	0.296
1921	320	74	364	0.88	4.33	0.203
1920	414	98	314	1.32	4.22	0.312
1919	540	70	348	1.55	7.70	0.201
1918	687	86	350	1.96	7.99	0.246
1917	558	87	319	1.75	6.41	0.273
1916	623	85	276	2.26	7.34	0.308
1915	407	78	273	1.49	5.22	0.286
1914	351	59	280	1.25	5.95	0.210
1913	337	68	245	1.38	4.95	0.278
1912	260	52	271	0.96	5.00	0.192
1911	159	34	228	0.70	4.68	0.144
1910	242	30	199	1.22	8.07	0.151
1909	230	32	234	0.98	7.19	0.137
1908	189	28	222	0.85	6.75	0.126
1907	278	18	200	1.39	15.45	0.090
1906	279	29	212	1.31	9.63	0.137

REPORT OF THE TREASURER

April 29, 1929

RECEIPTS

Cash on hand, May 4, 1928.....	\$ 1.79
Income from dues.....	454.13
Entrance fees, fellows.....	6.00
Entrance fees, associates.....	49.24
Transfer fees, associates to fellows.....	36.74
Sale of Proceedings.....	6.16
Transferred from Savings account.....	175.00
Allotment from A. A. A. S., May, 1928.....	108.50
Same, October, 1928.....	3.50
Interest on Strauss Bond.....	15.00
Overcharge on out-of-town checks, — refunded.....	.12
Total .....	\$856.18

DISBURSEMENTS

Stenographic services, sending out notices, by treas.....	\$ 12.34
Postage for treasurer.....	18.28
Multigraphing letters to A. A. A. S. members, and supplies.....	11.10
New book for treasurer's accounts.....	2.60
One thousand Envelopes for Treasurer.....	9.50
Expenses Dr. Pammel, exec. com. — trips to Des Moines.....	13.90
Clerical work for Dr. Coleman, Editor.....	12.75
Programs Grinnell meeting.....	49.50
Postage and supplies for secretary, Dr. Helmick.....	54.83
Two thousand letter heads.....	9.00

Honorarium and expenses, annual address, Dr. Dunham Jackson----	70.54
Printing "Instructions to Authors"-----	4.00
Research grant to Professor Poulter-----	80.00
Transferred to Savings account-----	307.22
Honorarium to, Jas. H. Lees, editor-----	41.66
Honorarium to Nellie E. Newman, distributing Proc.-----	25.00
Honorarium to P. S. Helmick, secretary-----	50.00
Honorarium to A. O. Thomas, treasurer-----	50.00
Charges on out-of-town checks (discontinued 1929)-----	7.32
Balance in Bank-----	26.64
Total-----	\$856.18

The assets of the Iowa Academy of Science at present are as follows:

One Strauss Bond-----	\$ 500.00
Accrued interest on same at this date-----	15.00
In Savings account @ 4% int.-----	1075.00
Accrued int., on Savings acct., at this date-----	16.08
Cash in bank-----	26.64
Total-----	\$1632.72

The only liabilities are the current bills amounting to less than one hundred dollars. Current income from dues and allotments from A. A. A. S. will run close to seven hundred dollars between now and May 1st. 1930. Ten years ago this date the Academy had a checking account of \$31.58 with no assets in way of bonds or savings deposits.

Respectfully submitted,

A. O. THOMAS  
*Treasurer.*

## REPORT OF THE EDITOR

About July 1 President Kay asked me to edit the 1928 Proceedings in the absence of the Editor, Doctor Coleman. I assumed the work with the understanding that I might do it in leisure time. Leisure time has been more rare than usual, hence the work has progressed rather slowly. Proof has been sent to authors, however, and your editor would like to suggest that the request to return copy with proof be complied with in order that a closer check may be kept on the proof. Another problem of some perplexity is that of papers submitted by non-members. No doubt such papers are inspired by teachers who wish their pupils to have a channel of publication. But in such cases either the teacher or the pupil should have the grace to submit the price of membership.

If our rule that an abstract at least be given with each title is to remain in force each author should live up to it, which is more than many of us do. The same is true of references for the index, and authors furnishing such references should be careful to use the same title for the index as for the paper.

Our Proceedings are somewhat limited as to pages, but I believe that all of us who have topics to discuss can still find space for our papers if reasonable brevity is observed. In this connection let me suggest that the older members, who have been presenting papers for many years, might well afford to practice restraint in the length of their contributions and let the

younger men and women have their turn. Probably it is true that these older members have available means of publication that are not yet available to their younger colleagues and proteges. Of course this is not said with any desire to curb the production of articles by any members of this Academy, only to secure if possible a better balance. The editor's service is to help the Academy rather than to hinder it.

Respectfully,

JAMES H. LEES,  
*Editor.*

### THE REPORT OF THE EXECUTIVE COMMITTEE

The executive committee was called to order at 10:45 a.m. April 26, in the office of the Dean of Women, Foster Hall, Parsons College, Fairfield, Iowa. Members present were: Spinney, J. C. Gilman, Popoff, Raiford, Jaques, Wester, Lees, Thomas, Nelson, Helmick.

After the minutes of the last meeting were read and approved, it was moved and carried that the Secretary ascertain the source of large Academy endowments, such as that of the Virginia Academy of Science and report back the results of such questionnaire to the executive committee.

It was moved and carried that this committee favor the policy of private contributions to the research fund of the Academy.

Dr. Lees, Chairman of the Committee on history, reported that this committee was in favor of the Iowa Historical Society writing the history of the Academy.

Moved and carried that it is the judgment of the executive committee that the writing of this history be left in the hands of Dr. Shambaugh and the State Historical Society. It is understood that this undertaking will entail no financial obligation to the Academy, but that the Academy will co-operate with the Historical Society in every way in the matter of the opening of Academy records for inspection and the arranging of conferences with Academy members.

Moved and carried that an Academy research award of \$100 be allowed to Dr. D. W. Morehouse of Drake University to be applied on the purchase of a comparator, it being understood that this sum will revert back to the Academy if not applied to the purchase of this instrument before the next annual spring meeting of the executive committee.

On motion of Dr. Thomas, it was unanimously carried that this committee recommend the granting of honorary fellowship in the Academy to Dr. Frank Leverett.

Moved and carried that the next executive committee consider the advisability of holding the annual meeting of the Academy at a later date than the last Friday and Saturday in April, 1930.

An invitation from Iowa Wesleyan College was read to hold the 1930 meeting at Mount Pleasant. (Subsequent to the meeting an invitation was received from Penn College, Oskaloosa, Cornell College, Mount Vernon, and Davenport, Iowa.)

Moved and carried that the place of the next meeting be referred to the next executive committee, with power.

On motion, meeting adjourned.

(signed) P. S. HELMICK  
*Secretary.*

## REPORT OF THE A. A. A. S. REPRESENTATIVE

As a representative of the State Academy I would report that there were thirteen state academies represented at the Academy Conference in Des Moines. According to a fixed rule the secretary for the year 1929 became the chairman of the Des Moines meeting. Since I acted in the capacity of secretary at New York City I served as chairman of the conference here. Dr. Clarence Juday, of the University of Wisconsin, was elected secretary. He will serve during 1930. Mr. Louis Astell, of the West Chicago High School, read a very unusual paper on "How State Academies May Aid Science Studies Among High School Students." A complete report of this meeting is found in SCIENCE for February 7, 1930, page 147.

D. W. MOREHOUSE

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 REPORT OF THE COMMITTEE ON THE DES MOINES  
MEETING A. A. A. S.

Pursuant to the resolutions passed by the Iowa State Academy an appropriation of \$2000 from the state was granted by the forty-eighth General Assembly. The committee received effective support from every member of the State Academy. Indeed, the success of our meeting at Des Moines is due very largely to the enthusiasm of the Iowa Academy. A complete financial report has been given to Dr. Livingston. The following is a copy of his report to me.

Total cost of meeting (all expenses that would have been necessary without the meeting)		\$9,389.82
Locally raised fund		4,789.82
		<hr/>
Deficit, paid by A. A. A. S.		\$4,600.00
Income from meeting (Registration fees, etc.)	\$2,891.45	
Current funds (annual dues, etc.) devoted to the meeting	1,708.55	
		<hr/>
Portion of cost not raised locally	\$4,600.00	
	D. W. MOREHOUSE,	
	<i>Chairman.</i>	

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## REPORT OF COMMITTEE ON BIOLOGICAL SURVEY

The committee appointed to secure an appropriation for the Biological Survey reports as follows:

We are glad to report that we secured the passage of the bill with a biennial appropriation of \$6,000. The bill was introduced in the senate by Senator Doran of Boone and in the house by Representative Nelson.

It had the support of many different friends and there was practically no opposition to the bill. We had the valuable assistance also of Dr. J. H. Lees of the Geological Survey and the backing of the Izaak Walton League and the Federated Women's Clubs. We are grateful and appreciate the kindness of the members of the legislature who assisted in the passage of this bill and the support of the friends over the state who helped us in presenting it to the legislature.

L. H. PAMMEL,  
*Chairman.*



### REPORT OF THE COMMITTEE ON SECRETARY'S REPORT

This report has been read and is approved by the Committee. We recommend its acceptance, and that it be made a part of our Proceedings. We feel that Secretary Helmick's recommendations are pertinent, and wish to direct the attention of the Academy especially to the subject of creating a Press Editor. The Committee hopes that definite action upon this vital subject will be considered at this meeting.

Respectfully submitted;

(signed) BEN H. WILSON,  
JAMES H. LEES,  
JOHN F. REILLY,  
*Acting Committee.*

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### REPORT OF COMMITTEE ON RESOLUTIONS

*Resolved:* That we, the members of the Iowa Academy of Science, express our appreciation of the vision and sense of value shown by the Legislature in making provision for the progress of science and education in Iowa as represented by their appropriations for the State Biological Survey, the Des Moines meeting of the A. A. A. S., the State Geological Survey, and the State Board of Conservation.

*Resolved:* That we wish to convey to our hosts in Fairfield an expression of our appreciation and enjoyment of the delightful entertainment tendered by the citizens of Fairfield in general and the Rotary Club in particular, with the effective cooperation of the Administration, Faculty, and Students of Parsons College. Especially has the marked success of our Annual Meeting been due to the efficient management of the arrangements by Professor Charles Carter and his staff.

HENRY S. CONARD,  
*Chairman.*

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### MEMBERS AND VISITORS IN ATTENDANCE

Aardal, A. A., Iowa State College; Albert, Henry St. Dept. of Health; Andrews, Elizabeth G., University of Iowa; Bartow, Edward, University of Iowa; Becker, D. W., Mt. Pleasant H. S.; Behrens, Lera, Iowa Wesleyan College; Bell, Willis J., Iowa Wesleyan College; Benedict, A. A., Iowa State College; Benz, Carl A., Iowa Wesleyan College; Bind, P. A., University of Iowa; Boshart, Lawrence J., Iowa Wesleyan College; Brandt, A. E., Iowa State College; Bresson, Eva Mae, Cornell College; Buchanan, R. E., Iowa State College; Buckley, Francis, Mt. Pleasant H. S.; Bunting, Ralph, Grinnell College; Casek, Horace W., Iowa Wesleyan College; Carr, A. B., Simpson College; Castell, John, Parsons College; Chittenden, E. W., University of Iowa; Clark, Anabel Eliz., Iowa Wesleyan College; Coe, Wesley, Mt. Pleasant H. S.; Coffin, Leroy M., Coe College; Collier, R. M., John Fletcher College; Collins, E. Hobart, Parsons College; Collins, William B., Columbia College; Colpitts, Julia T., Iowa State College; Colwell, Willa, Simpson College; Conard, Henry S., Grinnell College; Conkwright, Nelson B., University of Iowa; Cottrell, C. A., Mt. Pleasant H. S.;

Craig, Kenneth A., Iowa Wesleyan College; Crum, L. V., Iowa State College; Culbertson, J. B., Cornell College; Dedieck, Dallas S., University of Iowa; Dole, J. Wilbur; Douglass, Donald W., Grinnell College; Diehl, George, Grinnell College; Douglas, L. C., Grinnell College; Eldinop, John A., University of Iowa; Evans, J. E., Iowa State College; Fagan, H. D., University of Iowa; Foard, Castle W., University of Iowa; Fitzpatrick, F. L., Coe College; Fleming, Annie W., Iowa State College; Fulton, John W., Iowa Wesleyan College; Gillaspy, John E., Iowa Wesleyan College; Gilman, Joseph C., Iowa State College; Goehring, M., University of Iowa; Coggen, Dr. J. G., St. Ambrose College; Guise, Carl C., Parsons College; Guise, Frances R.; Gwynne, C. S., Iowa State College; Hagen, Wilbert G., University of Iowa; Hallowell, Harold J., Iowa Wesleyan College; Hanson, Edwin L., University of Iowa; Harnagel, Raymond, Parsons College; Helmick, P. S., Drake University; Hightower, Pleasant R., University of Iowa; Hills, Howard H., Iowa Wesleyan College; Hoek, Floyd G., Parsons College; Holl, D. L., Iowa State College; Hookom, Don W., Iowa Wesleyan College; Hooper, Mildred A., University of Iowa; Humphrey, Claude, Iowa Wesleyan College; Huston, Marshall, Iowa Wesleyan College; Ingalls, Edmund E., Iowa Wesleyan College; Irvine, Walter, Parsons College; Jaques, H. E., Iowa Wesleyan College; Jay, Edith, Grinnell College; Johns, Minnie Rae, University of Iowa; Kay, G. F., University of Iowa; Kearney, Dora E., Iowa State Teachers'; Kellogg, J. M. B., University of Iowa; Kelly, Harry M., Cornell College; King, G. E., Iowa Wesleyan College; Klingaman, O. E., Davenport Pub. Museum; Kneip, E., University of Iowa; Knight, Nicholas, Cornell College; Lapp, C. J., University of Iowa; Larsen, J. A., Iowa State College; Lauger, Jessie, Iowa Wesleyan College; Lees, James H., Geological Survey; Leu, Iliff, Parsons College; Levine, Max, Iowa State College; Lyon, Leonard, Parsons College; Lindly, J. M., Winfield, Iowa; Lindly, Mrs. J. M., Winfield, Iowa; McCuary, Donald, Iowa Wesleyan College; McKenzie, R. M., Parsons College; Masden, George, Iowa Wesleyan College; Melconian, Vartan D., Parsons College; Meyer, Alfred W., Coe College; Miller, Irene, Iowa Wesleyan College; Milligan, Helen, Iowa Wesleyan College; Morrow, Arthur R., Iowa Wesleyan College; Munger, Irvin D., Iowa Wesleyan College; Nelson, Roy A., Cornell College; Neuman, E. W., University of Iowa; Newell, Walter S., Coe College; Noble, Myron, Parsons College; Odiorne, Carl, Parsons College; Pammel, Dr. L. H., Iowa State College; Parish, Jessie, Cedar Rapids, Iowa; Parks, Pete, Iowa Wesleyan College; Paulter, Thomas C., Iowa Wesleyan College; Pearce, J. M., University of Iowa; Percy, Willis G., Parsons College; Poitevin, Lois, Simpson College; Popoff, Stephen, University of Iowa; Putnam, Edward K., Davenport Pub. Museum; Raiford, L. Charles, University of Iowa; Ray, F. E., Grinnell College; Ray, K. W., University of Iowa; Reed, George H., University of Iowa; Reilly, John F., University of Iowa; Reusser, Fred, Buena Vista College; Rietz, H. Z., University of Iowa; Ritchey, Carter, Iowa Wesleyan College; Roberts, B. D., Parsons College; Roberts, Mrs. B. D.; Rockenback, Etleka, Iowa Wesleyan College; Rogers, Elizabeth, Iowa Wesleyan College; Rommel, Margaret, Iowa Wesleyan College; Rukgaber, Hugh, Iowa Wesleyan College; Ruckmick, Christian A., University of Iowa; Russell, Paul N., John Fletcher College; Salit, P. W., University of Iowa; Savage, D. F., Iowa Wesleyan

College; Schiefer, Herbert F., Des Moines University; Seik, Francis J., Iowa Wesleyan College; Seitz, Max, Iowa Wesleyan College; Shimek, B., University of Iowa; Skinner, E. W., Olivet College (Mich.); Slaght, William E., Cornell College; Slater, J. E., Parsons College; Smith, E. R. and wife; Smith, H. T., Parsons College; Smith, Mrs. H. T.; Smith, Edwin R., Iowa State College; Smith, Lothrop, University of Iowa; Spinney, L. B., Iowa State College; Stanley, Alfred R., Penn College; Stookey, S. W., Coe College; Strieby, J. Glenn, Iowa Wesleyan College; Talbot, William F., University of Iowa; Thomas, A. O., University of Iowa; Thompson, Essie Mae, Cornell College; Todd, Clarence, Mt. Pleasant H. S.; Turner, J. S., Iowa State College; Tyndall, E. P. T., University of Iowa; Vance, Thomas F., Iowa State College; Vittum, Paul, Cornell College; Waldbauer, Louis, University of Iowa; Walker, Alfred O., Iowa Wesleyan College; Walker, R. H., Iowa State College; Ware, Lawrence A., University of Iowa; Ward, Lewis E., University of Iowa; Ware, Robert, Iowa Wesleyan College; Warner, Donald B., University of Iowa; Wellman, Beth, University of Iowa; Wells, Grace, Iowa Wesleyan College; Werkman, C. H., Iowa State College; Wester, C. W., Iowa State Teachers'; Whitnah, C. H., University of Iowa; Wilhelm, H., Iowa Wesleyan College; Willeford, George, Iowa Wesleyan College; Williams, Marian, Grinnell College; Wilson, Ben H., Iowa Wesleyan College; Wilson, Guy West, Penn College; Wilson, Robert O., Iowa Wesleyan College; Wobbe, Delbert E., Iowa Wesleyan College; Wolfe, Robert, Parsons College; Wood, L. W., State Highway Commission; Wood, Roscoe, University of Iowa; Woodrow, Jay W., Iowa State College; Woods, Gladys M., Iowa Wesleyan College; Wylie, C. C., University of Iowa.

## REPORT OF MEMBERSHIP COMMITTEE

### NEW FELLOWS ELECTED

Andrews, Elizabeth, Florida College for Women, Tallahassee, Fla.; Decker, Geo. E., President, Register Life Ins. Co., Davenport, Ia.; Green, Pres. Clarence W., Parsons College, Fairfield; Haber, Dr. E. S., Veg. Crops Sect., Ames; Hightower, P. R., Butler Univ. Indianapolis, Ind.; Klingaman, Orie E., Davenport Pub. Mus., Dep't.; Ray, Dr. Francis Earl, Iowa College, Grinnell; Ray, Dr. Kenneth W., Chemistry, U. of Ia., Iowa City; Roberts, Byron D., Parsons College, Fairfield; Sass, Prof. J. E., Iowa State College, Ames; Waldbauer, Dr. Louis, chemistry, U. of Ia., Iowa City; Wobbe, Dr. D. E., Iowa Wesleyan College, Mt. Pleasant.

### TRANSFER FROM ASSOCIATES TO FELLOWS

Aikman, Dr. J. M., Botany Dept., I. S. C., Ames; Blagg, Elizabeth, Iowa College, Grinnell; Burk, Myrl, U. of Neb., Bot. Dept., Lincoln, Nebr.; Hendrickson, Prof. Geo. O., Iowa State College, Ames; Hethershaw, Lillian, S. W., 21st St., Des Moines; Johns, Minnie R., Dept. High School, Davenport; Kubichek, Wesley F., Coe College, Cedar Rapids; Lambert, Prof. W. V., Genetics, I. S. C., Ames; Larson, Prof. Julius A., I. S. C., Ames; Loomis, Dr. W. E., Genetics, I. S. C., Ames; McCracken, Prof. E. C., Physics Dept., Ames; Over, W. H., U. of So. Dak., Vermillion, S. D.;

Smith, Erma A., Zool. Dept., Ames; Wood, L. W., State Highway Com., Ames.

ASSOCIATES

Anderson, Richmond, Mt. Vernon; Artist, Hugh L., Cedar Rapids; Bentley, De Spence, Mt. Vernon; Boyd, Jno. L., Des Moines; Bresson, Eva, Mt. Vernon; Burnison, B. W., Alta; Clark, Anabel, Albia; Cole, Elvin M., Audubon; Collins, Wm. B., Dubuque; Davidson, Isabel, Stanwood; Day, Harry, Mt. Vernon; Day, Roscoe, University Park; Dysinger, D. W., Iowa City; Essex, Horace, Keosauqua; Foard, Castle, U. of Ia., Iowa City; Fulton, C. J., Fairfield; Fulton, Jno. W., Mt. Pleasant; Garside, Helen V., Iowa City; Giese, Harry, Ames; Hagge, H. P., Clinton; Harrington, Harold, Iowa City; Harris, Russia, Cedar Falls; Hookom, Donald, Mt. Pleasant; Howard, Frank L., Iowa City; Hoyem, A. C., Physics Dept., S. U. I., Iowa City; Humphrey, Claude, Mt. Pleasant; Huston, Marshall, Mt. Pleasant; Jordan, Dr. Carl F., Med. Coll., S. U. I., Iowa City; Kellogg, M. B., Physics, S. U. I., Iowa City; Kornitsky, Max, Cedar Rapids; Langlas, Ervin W., Marengo; Lyons, Prof. L. J., Fayette; McComb, Harold, Mt. Pleasant; Miller, Lawrence W., Iowa City; Missman, Florence, Woden; Mundkur, B. B., Botany, Ames; Nicholson, Deuzel, Indianola; Nissen, Esther, Cedar Falls; Pallas, A. J., Des Moines; Parks, Pete, Mt. Pleasant; Ritchey, Carter, Mt. Pleasant; Rockenbach, Etelka, Keokuk; Rader, Pearl, Newton; Rodholm, Ausgaard, Des Moines; Rosen, W. M., Ogden; Savage, David F., Salem; Schiefer, H. F., Des Moines; Schipper, Arthur L., Cedar Rapids; Shepard, Frances, Spencer; Stanley, Alfred R., Des Moines; Stone, Wayne, Mt. Vernon; Walker, Rudger H., Ames; Webster, Victor, S., North English; Wilson, R. O., Mt. Pleasant.

AMERICAN ASSOCIATION MEMBERS IN IOWA UNITE WITH THE ACADEMY

Inasmuch as over one hundred members of A. A. A. S. live in Iowa who are not members of the Iowa Academy of Science and in view of the fact that the A. A. A. S. would meet in Des Moines in December, 1929, the President of the Academy, Dean George F. Kay, addressed a letter to each of these persons inviting them to accept membership in the Iowa Academy of Science at least for one year. Forty-seven persons accepted the invitation, — six fellows and forty-one associates. It is hoped that many of them will continue their affiliation with our state organization. Names and addresses of those accepting follow: Bachman, Jos., Bachman's Pharmacy, Granville; Bierring, Dr. Walter L., Des Moines; Blumer, J. C., Clinton, Minnesota; Cox, Prof. Paul E., Ames; Conner, Dr. F. H., Nevada; Corey, S. A., 1079 23rd St., Des Moines; Davis, Dr. S. K., Libertyville; Ensign, Dr. F. E., U. of Iowa, Iowa City; Fluhrer, Dr. F. C., University Park; Forrest, Prof. H. L., Iowa State College, Ames; Gilchrist, Miss Maude, 2305 Grand Avenue, Des Moines; Gratiot, Dr. H. B., 130 W. 10th St., Dubuque; Gray, W. C., 331 So. Johnson St., Iowa City; Hammond, Prof. W. E., Agric. Exp. Stat., Ames; Harris, Halbert M., Professor Zoology, Ames; Helser, Prof. M. D., Agric. Exp. Stat., Ames; Hecker, Dr. F. A., St. Joseph's Hospital, Ottumwa; Heywood, Mrs. Rolland E., Peterson; Hinds, R. E., Route No. 5, Hedrick; Hixon, Prof. R. M., chemistry Dept.,

Ames; Horn, Dr. Ernest, College Education, Iowa City; Hsiung, T. S. Zool. Dept., I. S. C., Ames; Jepson, Dr. Wm., Physician, Sioux City; Kildee, Prof. H. H., Agric. Exp. Sta., Ames; McBryde, Prof. C. N., P. O. Box 177, Ames; McCleskey, Chas. S., Bacteriology, I. S. C., Ames; McEwen, Dr. Ewen, Medical Lab., U. of Ia., Iowa City; McLaughlin, Prof. Laura, Home Econ., Ames; Mattill, Dr. Henry A., Biochemistry, U. of Ia., Iowa City; Meyer, Prof. Alfred W., Coe College, Cedar Rapids; Miller, Lawrence W., Psych. Dept., U. of Ia., Iowa City; Mulsow, Dr. F. W., Physician, Cedar Rapids; Nagler, Dr. Floyd A., Engineering Coll., Iowa City; Porter, Dr. R. H., Plant Pathology, Ames; Pratt, Prof. D. J., Botany Dept., I. S. C., Ames; Scott, Dr. Walter E., Physician, Adel; Sherman, Dr. E. Amelia, McGregor, Route 2; Starbuck, Dr. Edwin D., Philosophy Dept., S. U. I., Iowa City; Trumbower, Prof. John A., Plant Pathology, I. S. C., Ames; Van Epps, Prof. C., Univ. Hospital, Iowa City; Walker, Dr. Evon, Physician, Ottumwa; Wentz, Prof. Jno. B., Dept., Farm Crops, I. S. C., Ames; Wilkins, Prof. F. S., Farm Crops and Soils, I. S. C., Ames; Williams, Dean C. C., Coll. Engin., S. U. I., Iowa City; Wilmer, Frank L., Odebolt; Witte, Dr. Max E., State Hospital, Clarinda; Zimmerman, Prof. John, U. of Dubuque, Dubuque.

Respectfully submitted,

A. O. THOMAS,

*Chairman Membership Committee.*